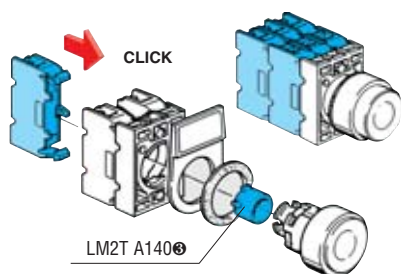


22MM PUSH BUTTONS AND SELECTORS

- ◆ *Metal and plastic series*
- ◆ *Quick and easy installation*
- ◆ *Standard front IP65 degree of protection*
- ◆ *Highly conductive contacts*
12V-5mA, capacity $\leq 20\text{m}\Omega$
- ◆ *Contact operation: double breaking action, direct opening operation and self cleaning.*



These actuators consent to easy and quick installation with neither the use of special tools nor the need for subsequent adjustments or rotations.

Metal series

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PAG. 6-2 TO 6

METAL BUTTON ACTUATORS

- Spring return flush, extended and shrouded
- Push-push flush and extended
- Mushroom-head
- Mechanical reset
- Illuminated.



PAG. 6-4 AND 7

DOUBLE AND TRIPLE TOUCH ACTUATORS

- Double touch with or without indicator
- Triple touch.



PAG. 6-5 AND 7

METAL SELECTOR ACTUATORS

- Knob
- Lever
- Key
- Illuminated.



PAG. 6-8

METAL POTENTIOMETER DRIVES

- Graduated scale
- Variable index.



PAG. 6-9

METAL JOYSTICKS

- 2 directions
- 4 directions
- 2 directions with mechanical interlock
- 4 directions with mechanical interlock
- Complete with auxiliary contacts.



PAG. 6-10 TO 14

PLASTIC BUTTON ACTUATORS

- Spring return flush, extended and shrouded
- Push-push flush and extended
- Mushroom-head
- Mechanical reset
- Illuminated.



PAG. 6-12 AND 15

PLASTIC DOUBLE AND TRIPLE TOUCH ACTUATORS

- Double touch with or without indicator
- Triple touch.



PAG. 6-13 AND 15

PLASTIC SELECTOR ACTUATORS

- Knob
- Lever
- Key
- Illuminated.



PAG. 6-16

CONTROL STATIONS

- 1 to 5 positions without actuators
- Complete units with 1 button.



PAG. 6-16

PILOT LIGHTS

- Monoblock LED
- Conventional monoblock.



PAG. 6-17

ADD-ON ELEMENTS

- Mounting adapter
- Contact elements
- Lamp holders
- LED integrated lamp holders.



PAG. 6-19 TO 21

ACCESSORIES

- Labelling
- Label holders
- Bulbs
- Spare parts.

Push-button actuators, spring return



8 LM2T B10...



8 LM2T B20...



8 LM2T B30...

Order code	Colour	Qty per pkg n°	Wt [kg]
Flush (without mounting adapter). Spring return.			
8 LM2T B102	Black	10	0.033
8 LM2T B103	Green	10	0.033
8 LM2T B104	Red	10	0.033
8 LM2T B105	Yellow	10	0.033
8 LM2T B106	Blue	10	0.033
8 LM2T B108	White	10	0.033
Extended (without mounting adapter). Spring return.			
8 LM2T B202	Black	10	0.035
8 LM2T B203	Green	10	0.035
8 LM2T B204	Red	10	0.035
8 LM2T B205	Yellow	10	0.035
8 LM2T B206	Blue	10	0.035
8 LM2T B208	White	10	0.035
Shrouded (without mounting adapter). Spring return.			
8 LM2T B302	Black	10	0.035
8 LM2T B303	Green	10	0.035
8 LM2T B304	Red	10	0.035
8 LM2T B305	Yellow	10	0.035
8 LM2T B306	Blue	10	0.035
8 LM2T B308	White	10	0.035

Push-button actuators, spring return, with symbol



8 LM2T B11...



8 LM2T B21...

Order code	Symbol	Colour	Qty per pkg n°	Wt [kg]
Flush (without mounting adapter). Spring return.				
8 LM2T B1102	O	Black	10	0.033
8 LM2T B1104		Red	10	0.033
8 LM2T B1113	I	Green	10	0.033
8 LM2T B1118		White	10	0.033
8 LM2T B1123	II	Green	10	0.033
8 LM2T B1128		White	10	0.033
8 LM2T B1132	STOP	Black	10	0.033
8 LM2T B1134		Red	10	0.033
8 LM2T B1142	← ①	Black	10	0.033
8 LM2T B1148		White	10	0.033
8 LM2T B1152	↑ ②	Black	10	0.033
8 LM2T B1158		White	10	0.033
8 LM2T B1163	START	Green	10	0.033
8 LM2T B1168		White	10	0.033
8 LM2T B1176	R	Blue	10	0.033
8 LM2T B1178		White	10	0.033
8 LM2T B1196	RESET	Blue	10	0.033
8 LM2T B1502	↔	Black	10	0.033
8 LM2T B1512	↔	Black	10	0.033
Extended (without mounting adapter). Spring return.				
8 LM2T B2102	O	Black	10	0.035
8 LM2T B2104		Red	10	0.035
8 LM2T B2132	STOP	Black	10	0.035
8 LM2T B2134		Red	10	0.035

① Arrow symbol can be used to indicate right or left.
 ② Arrow symbol can be used to indicate up or down.

Operational characteristics

- Ambient operating temperature: -25...+60°C
- Ambient storage temperature: -40...+70°C
- Any mounting position is allowed
- Degree of protection: IP65.

Materials

An aluminium and zinc alloy (zama) is used for the metal part whereas plastic parts are made of polyamide and polycarbonate.

Mechanical endurance

Operating force: 0.8 kg (actuator).
 Mechanical life: 1,000,000 cycles.

Mounting adapter

See page 6-17.

Type: LM2T AU120.

Actuators latch onto the mounting adapter by simple rotation.

The adapter is fixed to the mounting surface by means of incorporated screws (Tmax = 0.8 Nm).

Auxiliary contacts

See page 6-17.

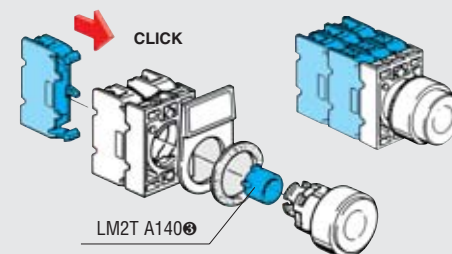
Type:

LM2T C10 (1NO)
 LM2T CF10 (1NO Faston)
 LM2T C10A (EM)
 LM2T C01 (1NC)
 LM2T CF01 (1NC Faston)
 LM2T C01D (LB)

Auxiliary contacts snap onto the mounting adapter.

Up to 6 auxiliary contacts can be fitted on the mounting adapter: 2 on the left, 2 at the centre and 2 on the right.

To mount the auxiliary contacts in the centre position, use the accessory: LM2T A140 (see page 6-21).



③ The action plug LM2T A140 for the centre position is not standard supplied and must be purchased separately.

Certifications and compliance

Certifications obtained: cULus, RINA, LROS, GOST.

Compliant with standards: IEC/EN 60947-1, IEC/EN 60947-5-1.

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Push-push button actuators



8 LM2T Q10...



8 LM2T Q20...

Order code	Colour	Qty per pkg	Wt
		n°	[kg]
Flush (without mounting adapter). Push on-push off.			
8 LM2T Q1020	Black	10	0.033
8 LM2T Q1030	Green	10	0.033
8 LM2T Q1040	Red	10	0.033
8 LM2T Q1050	Yellow	10	0.033
8 LM2T Q1060	Blue	10	0.033
8 LM2T Q1080	White	10	0.033
Extended (without mounting adapter). Push on-push off.			
8 LM2T Q2020	Black	10	0.035
8 LM2T Q2030	Green	10	0.035
8 LM2T Q2040	Red	10	0.035
8 LM2T Q2050	Yellow	10	0.035
8 LM2T Q2060	Blue	10	0.035
8 LM2T Q2080	White	10	0.035

① Use the early-make type, LM2T C10A only.
No normally open contact element, LM2T C10, must be used with this type of button actuators.
A maximum of 2 contact elements can be mounted only.

Mushroom head push-button actuators



8 LM2T B614...



8 LM2T B616...



8 LM2T B624...



8 LM2T B634...



8 LM2T B654...



8 LM2T B6644

Order code	Colour	Qty per pkg	Wt
		n°	[kg]
Spring return. Ø 40 mm (without mounting adapter).			
8 LM2T B6142	Black	10	0.037
8 LM2T B6143	Green	10	0.037
8 LM2T B6144	Red	10	0.037
8 LM2T B6145	Yellow	10	0.037
8 LM2T B6146	Blue	10	0.037
Spring return. Ø 60 mm (without mounting adapter).			
8 LM2T B6162	Black	10	0.043
8 LM2T B6163	Green	10	0.043
8 LM2T B6164	Red	10	0.043
8 LM2T B6165	Yellow	10	0.043
8 LM2T B6166	Blue	10	0.043
Latch, pull to release. Ø 40 mm (without mounting adapter).			
8 LM2T B6242	Black	10	0.105
8 LM2T B6244	Red	10	0.105
Latch, turn to release. Ø 40 mm (without mounting adapter).			
8 LM2T B6342	Black	10	0.054
8 LM2T B6344	Red	10	0.054
Latch, turn key to release. Ø 40 mm (without mounting adapter).			
8 LM2T B6542	Black	10	0.091
8 LM2T B6542G...②		1	0.091
8 LM2T B6544	Red	10	0.091
8 LM2T B6544G...②		1	0.091
Latch, turn to release, EN418 compliant. Ø 40 mm (without mounting adapter).			
8 LM2T B6644	Red	10	0.087

② Versions with different key codes.
Complete with the numeric code of the key. The following versions are available: 501, 502, 503, 504, 505, 506, 507, 508, 509, 510.
Example of complete code: 8 LM2T B6542G505.

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Operational characteristics

- Ambient operating temperature: -25...+60°C
- Ambient storage temperature: -40...+70°C
- Any mounting position is allowed
- Degree of protection: IP65 for push-push and LM2T B654 actuators; IP66 for others.

Materials

An aluminium and zinc alloy (zama) is used for the metal part whereas plastic parts are made of polyamide and polycarbonate.

Mechanical endurance

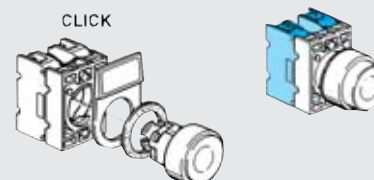
- Operating force: 0.8 kg (actuator).
Mechanical life:
- Push-push actuators: 500,000 cycles
 - Mushroom head buttons: 1,000,000 cycles
 - Mushroom head latch buttons: 300,000 cycles.

Mounting adapter

See page 6-17.
Type: LM2T AU120.
Actuators latch onto the mounting adapter by simple rotation.
The adapter is fixed to the mounting surface by means of incorporated screws (Tmax = 0.8 Nm).

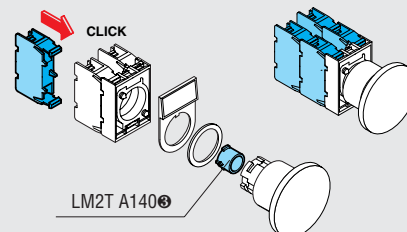
Auxiliary contacts for push-push button actuators

See page 6-17.
Type: LM2T C10A (EM)
LM2T C01 (1NC)
Auxiliary contacts snap onto the mounting adapter.
Up to 2 auxiliary contacts can be fitted on the mounting adapter: 1 each on the right and left.



Auxiliary contacts for mushroom-head button actuators

Type: LM2T C10 (1NO)
LM2T CF10 (1NO Faston)
LM2T C10A (EM)
LM2T C01 (1NC)
LM2T CF01 (1NC Faston)
LM2T C01D (LB)
Auxiliary contacts snap onto the mounting adapter.
Up to 4 auxiliary contacts can be fitted on the mounting adapter with LM2T B624... and LM2T B6644 types: 2 on the right and 2 on the left only.
Up to 6 auxiliary contacts can be fitted on the mounting adapter with all the other types: 2 on the left, 2 at the centre LM2T A140 (see page 6-21).



③ The action plug LM2T A140 for the centre position is not standard supplied and must be purchased separately.

Certifications and compliance

Certifications obtained: cULus, RINA, LROS, GOST.
Compliant with standards: IEC/EN 60947-1, IEC/EN 60947-5-1.

Mechanical reset buttons, complete unit, spring return



8 LM2T R1196

Order code	Colour	Qty per pkg	Wt
		n°	[kg]

Flush (5.2 mm stroke). Spring return.
Adjustable length 0-123 mm.

8 LM2T R1002	Black	10	0.065
8 LM2T R1003	Green	10	0.065
8 LM2T R1004	Red	10	0.065
8 LM2T R1006	Blue	10	0.065
8 LM2T R1196	Blue (RESET)	10	0.065

Extended (5.2 mm stroke). Spring return.
Adjustable length 0-123 mm.

8 LM2T R2004	Red	10	0.067
--------------	-----	----	-------

Complete with mounting adapter as well as the rod.

● With "RESET" caption on actuator.

Operational characteristics

- Ambient operating temperature: -25...+60°C
- Ambient storage temperature: -40...+70°C
- Any mounting position is allowed
- Degree of protection: IP65 for mechanical reset buttons; IP40 for double and triple-touch actuators.

Materials

An aluminium and zinc alloy (zama) is used for the metal part whereas plastic parts are made of polyamide and polycarbonate.

Mechanical endurance

Operating force: 0.8kg (actuator)
Mechanical life: 1,000,000 cycles

Mounting adapter

See page 6-17.

Type: LM2T AU120.

Actuators latch onto the mounting adapter by simple rotation.

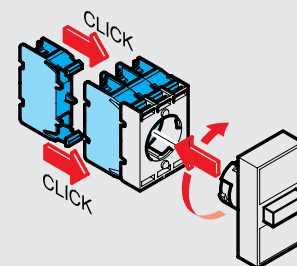
The adapter is fixed to the mounting surface by means of incorporated screws (Tmax = 0.8 Nm).

Auxiliary contacts for touch actuators

See page 6-17.

Type: LM2T C10 (1NO)
LM2T CF10 (1NO Faston)
LM2T C10A (EM)
LM2T C01 (1NC)
LM2T CF01 (1NC Faston)
LM2T C01D (LB)

Auxiliary contacts snap onto the mounting adapter.



DOUBLE-TOUCH ACTUATORS

Up to 4 auxiliary contacts can be fitted on the mounting adapter: 2 on the left and 2 on the right.

TRIPLE-TOUCH ACTUATORS

Up to 6 auxiliary contacts can be fitted on the mounting adapter: 2 on the left, 2 in the centre and 2 on the right.

Certifications and compliance

Certifications obtained: cULus, RINA, LROS, GOST.
Compliant with standards: IEC/EN 60947-1, IEC/EN 60947-5-1.

Double-touch actuators, spring return



8 LM2T B71...

new



8 LM2T B72...

new

Order code	Colour	Symbols	Qty per pkg	Wt
			n°	[kg]

Two flush push-buttons (without mounting adapter).
Both spring return.

8 LM2T B7112	Black/Red	none	10	0.044
8 LM2T B7113	Green/Red	none	10	0.044
8 LM2T B7114	White/Black	none	10	0.044
8 LM2T B7122	Black/Red	I-O	10	0.044
8 LM2T B7123	Green/Red	I-O	10	0.044
8 LM2T B7124	White/Black	I-O	10	0.044
8 LM2T B7133	Green/Red	Start/Stop	10	0.044

One extended and one flush push-buttons (without mounting adapter). Both spring return.

8 LM2T B7212	Black/Red	none	10	0.044
8 LM2T B7213	Green/Red	none	10	0.044
8 LM2T B7214	White/Black	none	10	0.044
8 LM2T B7222	Black/Red	I-O	10	0.044
8 LM2T B7223	Green/Red	I-O	10	0.044
8 LM2T B7224	White/Black	I-O	10	0.044
8 LM2T B7233	Green/Red	Start/Stop	10	0.044

Triple-touch actuators, spring return



8 LM2T B73...

new

Order code	Symbols	Qty per pkg.	Wt
		n°	[kg]

Two external flush and one middle extended buttons (without mounting adapter). All spring return.

8 LM2T B7345	 STOP 	10	0.044
8 LM2T B7355	↑ STOP ↓	10	0.044
8 LM2T B7365	→ STOP ←	10	0.044
8 LM2T B7375	↗ STOP ↖	10	0.044

Selector actuators knob



8 LM2T S1...

Order code	Type of positions	Qty per pkg	Wt
		n°	[kg]
2 position (without mounting adapter).			
8 LM2T S120	↘	10	0.049
8 LM2T S121	↘	10	0.049
3 position (without mounting adapter).			
8 LM2T S130	↘↘	10	0.049
8 LM2T S131	↘↘	10	0.049
8 LM2T S132	↘↘	10	0.049
8 LM2T S133	↘↘	10	0.049

Selector actuators lever



8 LM2T S2...

Order code	Type of positions	Qty per pkg	Wt
		n°	[kg]
2 position (without mounting adapter).			
8 LM2T S220	↘	10	0.050
8 LM2T S221	↘	10	0.050
3 position (without mounting adapter).			
8 LM2T S230	↘↘	10	0.050
8 LM2T S231	↘↘	10	0.050
8 LM2T S232	↘↘	10	0.050
8 LM2T S233	↘↘	10	0.050

Selector actuators key



8 LM2T S3...

Order code	Type of positions	Qty per pkg	Wt
		n°	[kg]
2 position (without mounting adapter).			
8 LM2T S320	↘	10	0.079
8 LM2T S320G...①	↘	1	0.079
8 LM2T S321	↘↘	10	0.079
8 LM2T S321G...①	↘↘	1	0.079
8 LM2T S322	↘↘	10	0.079
8 LM2T S322G...①	↘↘	1	0.079
3 position (without mounting adapter).			
8 LM2T S330	↘↘	10	0.080
8 LM2T S330G...①	↘↘	1	0.080
8 LM2T S331	↘↘↘	10	0.080
8 LM2T S331G...①	↘↘↘	1	0.080
8 LM2T S332②	↘↘	10	0.080
8 LM2T S332G...①②	↘↘	1	0.080
8 LM2T S333②	↘↘	10	0.080
8 LM2T S333G...①②	↘↘	1	0.080
8 LM2T S350	↘↘	10	0.080
8 LM2T S350G...①	↘↘	1	0.080
8 LM2T S360	↘↘	10	0.080
8 LM2T S360G...①	↘↘	1	0.080
8 LM2T S370②	↘↘	10	0.080
8 LM2T S370G...①②	↘↘	1	0.080
8 LM2T S380②	↘↘	10	0.080
8 LM2T S380G...①②	↘↘	1	0.080
8 LM2T S390②	↘↘	10	0.080
8 LM2T S390G...①②	↘↘	1	0.080

① Versions with different key codes.

Complete with the numeric code of the key. The following versions are available: 501, 502, 503, 504, 505, 506, 507, 508, 509, 510.

Example of complete code: 8 LM2T S320G505.

② Available only on specific request.

Operational characteristics

- Ambient operating temperature: -25...+60°C
- Ambient storage temperature: -40...+70°C
- Any mounting position is allowed
- Degree of protection: IP65.

Materials

An aluminium and zinc alloy (zama) is used for the metal part whereas plastic parts are made of polyamide and polycarbonate.

Mechanical endurance

Mechanical life: 300,000 cycles.

Mounting adapter

See page 6-17.

Type: LM2T AU120.

Actuators latch onto the mounting adapter by simple rotation.

The adapter is fixed to the mounting surface by means of incorporated screws (Tmax = 0.8 Nm).

Auxiliary contacts

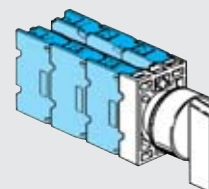
See page 6-17.

Type:

LM2T C10 (1NO)
LM2T CF10 (1NO Faston)
LM2T C10A (EM)
LM2T C01 (1NC)
LM2T CF01 (1NC Faston)
LM2T C01D (LB)

Auxiliary contacts snap onto the mounting adapter.

Up to 6 auxiliary contacts can be fitted on the mounting adapter: 3 on the left and 3 on the right.



Positions

- ↘ Stay put position.
- ↘ Spring return position.
- ↘ • Key extraction position.

Angles

2 position



3 position



Special versions

Versions with coloured keys are available upon request. Contact our Customer Service (Tel. +39 035 4282422).

Certifications and compliance

Certifications obtained: cULus, RINA, LROS, GOST
Compliant with standards: IEC/EN 60947-1, IEC/EN 60947-5-1.

Illuminated button actuators, spring return



8 LM2T BL10...



8 LM2T BL20...

Order code	Colour	Qty per pkg	Wt
		n°	[kg]

Flush (with side visibility). Spring return.
(without mounting adapter).

8 LM2T BL103	Green	10	0.033
8 LM2T BL104	Red	10	0.033
8 LM2T BL105	Yellow	10	0.033
8 LM2T BL106	Blue	10	0.033
8 LM2T BL107	Transparent	10	0.033

Extended (without mounting adapter). Spring return.

8 LM2T BL203	Green	10	0.035
8 LM2T BL204	Red	10	0.035
8 LM2T BL205	Yellow	10	0.035
8 LM2T BL206	Blue	10	0.035
8 LM2T BL207	Transparent	10	0.035

Operational characteristics

- Ambient operating temperature: -25...+60°C
- Ambient storage temperature: -40...+70°C
- Any mounting position is allowed
- Degree of protection: IP65.

Materials

An aluminium and zinc alloy (zama) is used for the metal part whereas plastic parts are made of polyamide and polycarbonate.

Mechanical endurance

Operating force: 0.8 kg (actuator).

Mechanical life:

- Push-push actuators: 500,000 cycles
- Mushroom head latch buttons: 300,000 cycles
- All others: 1,000,000 cycles.

Mounting adapter

See page 6-17.

Type: LM2T AU120.

Actuators latch onto the mounting adapter by simple rotation.

The adapter is fixed to the mounting surface by means of incorporated screws (Tmax = 0.8 Nm).

Auxiliary contacts for illuminated push-push actuators:

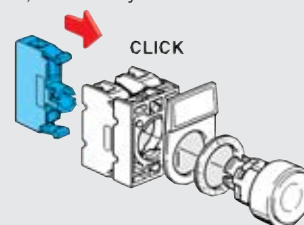
See page 6-17.

Type: LM2T C10A (EM)
LM2T C01 (1NC)

Auxiliary contacts snap onto the mounting adapter.

Up to 2 auxiliary contacts can be fitted on the mounting adapter in a row, 1 each on the right and left, along with the lamp-holder in the centre position, of which LM2T DL400, LM2T EL400, LM2T VL230, LM2T ZL230, LM2T L... or LM2T M... (see page 6-18).

With lamp-holder LM2T XL..., LM2T YL..., LM2T FL... or LM2T GL..., one auxiliary contact can be mounted only.



Auxiliary contacts for illuminated button or mushroom-head actuators:

Type: LM2T C10 (1NO)
LM2T CF10 (1NO Faston)
LM2T C10A (EM)
LM2T C01 (1NC)
LM2T CF01 (1NC Faston)
LM2T C01D (LB)

Auxiliary contacts snap onto the mounting adapter.

- Up to 4 auxiliary contacts can be fitted on the mounting adapter, 2 each on the right and left sides, when one of the following types of lamp-holders are used: LM2T DL400, LM2T EL400, LM2T VL230, LM2T ZL230, LM2T L... or LM2T M... (see page 6-18).
- Up to 2 auxiliary contacts can be fitted on the mounting adapter, one on top of the other of the same type only, when the following types of lamp-holders are used: LM2TL..., LM2T YL..., LM2T FL... or LM2T GL... (see page 6-18).
- Up to 2 auxiliary contacts only can be fitted with the actuator type LM2T BL624... whichever lamp-holder type is used.

Lamp-holder elements

See page 6-18.

Bulbs

Maximum recommended power for push-buttons: 1.2W.
See page 6-20.

Certifications and compliance

Certifications obtained: cULus, RINA, LROS, GOST.
Compliant with standards: IEC/EN 60947-1, IEC/EN 60947-5-1.

6 Push-push button actuators



8 LM2T QL10...



8 LM2T QL20...

Order code	Colour	Qty per pkg	Wt
		n°	[kg]

Flush (without mounting adapter). Push on-push off.

8 LM2T QL102	Black	10	0.033
8 LM2T QL103	Green	10	0.033
8 LM2T QL104	Red	10	0.033
8 LM2T QL105	Yellow	10	0.033
8 LM2T QL106	Blue	10	0.033
8 LM2T QL107	Transparent	10	0.033

Extended (without mounting adapter). Push on-push off.

8 LM2T QL202	Black	10	0.035
8 LM2T QL203	Green	10	0.035
8 LM2T QL204	Red	10	0.035
8 LM2T QL205	Yellow	10	0.035
8 LM2T QL206	Blue	10	0.035
8 LM2T QL207	Transparent	10	0.035

① Use only the early-make type, 8 LM2T C10A.

No normally open contact element, 8 LM2T C10, must be used with this type of button actuators.

A maximum of 2 contact elements can be mounted only.

Illuminated mushroom head button actuators



8 LM2T BL614...



8 LM2T BL624...

Order code	Colour	Qty per pkg	Wt
		n°	[kg]

Spring return. Ø 40 mm (without mounting adapter).②

8 LM2T BL6143	Green	10	0.043
8 LM2T BL6144	Red	10	0.043
8 LM2T BL6145	Yellow	10	0.043
8 LM2T BL6146	Blue	10	0.043
8 LM2T BL6148	White	10	0.043

Latch, pull to release. Ø 40mm (without mounting adapter).③

8 LM2T BL6243	Green	10	0.105
8 LM2T BL6244	Red	10	0.105
8 LM2T BL6245	Yellow	10	0.105
8 LM2T BL6246	Blue	10	0.105
8 LM2T BL6248	White	10	0.105

② The number of auxiliary contacts to be mounted is given in the side notes.

③ A maximum of 2 auxiliary contacts can be mounted only.

Illuminated selector actuators



8 LM2T SL1...

Order code	Colour	Type of positions	Qty per pkg	Wt
			n°	[kg]
2 position (without mounting adapter).				
8 LM2T SL1203	Green	✓	10	0.025
8 LM2T SL1204	Red		10	0.025
8 LM2T SL1205	Yellow		10	0.025
8 LM2T SL1206	Blue		10	0.025
8 LM2T SL1208	White		10	0.025
8 LM2T SL1213	Green	✓	10	0.025
8 LM2T SL1214	Red		10	0.025
8 LM2T SL1215	Yellow		10	0.025
8 LM2T SL1216	Blue		10	0.025
8 LM2T SL1218	White		10	0.025
3 position (without mounting adapter).				
8 LM2T SL1303	Green	✓	10	0.025
8 LM2T SL1304	Red		10	0.025
8 LM2T SL1305	Yellow		10	0.025
8 LM2T SL1306	Blue		10	0.025
8 LM2T SL1308	White		10	0.025
8 LM2T SL1313	Green	✓	10	0.025
8 LM2T SL1314	Red		10	0.025
8 LM2T SL1315	Yellow		10	0.025
8 LM2T SL1316	Blue		10	0.025
8 LM2T SL1318	White		10	0.025
8 LM2T SL1323	Green	✓	10	0.025
8 LM2T SL1324	Red		10	0.025
8 LM2T SL1325	Yellow		10	0.025
8 LM2T SL1326	Blue		10	0.025
8 LM2T SL1328	White		10	0.025
8 LM2T SL1333	Green	✓	10	0.025
8 LM2T SL1334	Red		10	0.025
8 LM2T SL1335	Yellow		10	0.025
8 LM2T SL1336	Blue		10	0.025
8 LM2T SL1338	White		10	0.025

Operational characteristics

- Ambient operating temperature: -25...+60°C
- Ambient storage temperature: -40...+70°C
- Any mounting position is allowed
- Degree of protection: IP65 for selectors; IP40 for double-touch actuators.

Materials

An aluminium and zinc alloy (zama) is used for the metal part whereas plastic parts are made of polyamide and polycarbonate.

Mechanical endurance

Mechanical life: 300,000 cycles for selectors; 1,000,000 cycles for double-touch actuators.

Mounting adapter

See page 6-17.

Type: LM2T AU120.

Actuators latch onto the mounting adapter by simple rotation.

The adapter is fixed to the mounting surface by means of incorporated screws (Tmax = 0.8 Nm).

Auxiliary contacts

See page 6-17.

Type: LM2T C10 (1NO)
LM2T CF10 (1NO Faston)
LM2T C10A (EM)
LM2T C01 (1NC)
LM2T CF01 (1NC Faston)
LM2T C01D (LB)

Auxiliary contacts snap onto the mounting adapter.

SELECTOR ACTUATORS

On 2-position illuminated selectors, the following can be fitted on the mounting adapter:

- Up to 4 auxiliary contacts when the following types of lamp-holders are used: LM2T DL400, LM2T VL230, LM2T EL400, LM2T ZL230, LM2T L... or LM2T M... (see page 6-18).
- Up to 2 auxiliary contacts when the following types of lamp-holders are used: LM2T XL..., LM2T YL..., LM2T FL... or LM2T GL... (see page 6-18).

On 3-position illuminated selectors, the following can be fitted on the mounting adapter:

- Up to 4 auxiliary contacts when the following types of lamp-holders are used: LM2T DL400, LM2T VL230, LM2T EL400, LM2T ZL230, LM2T L... or LM2T M... (see page 6-18).

NOTE: The following types of lamp-holders can not be mounted: LM2T XL..., LM2T YL..., LM2T FL... or LM2T GL... (see page 6-18).

DOUBLE-TOUCH ACTUATORS

Up to 4 auxiliary contacts can be fitted on the mounting adapter: 2 on the left and 2 on the right.

Selector positions

✓ Stay put position.

✓ Spring return position.

Selector angles

2 position



3 position



Lamp-holder elements for selector actuators

See page 6-18.

Lamp-holder elements for double-touch actuators

Use lamp-holder type LM2T DL400, LM2T EL400, LM2T VL230, LM2T ZL230, LM2T L... or LM2T M... See page 6-18.

Bulbs

Maximum recommended power: 1.2W.

See page 6-20.

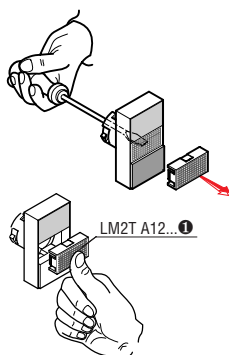
Certifications and compliance

Certifications obtained: cULus, RINA, LROS, GOST. Compliant with standards: IEC/EN 60947-1, IEC/EN 60947-5-1.

Double touch actuators, spring return, white indicator



8 LM2T BL711... 8 LM2T BL721...



① The actuator is standard supplied with a white diffuser. Coloured diffusers LM2T A12... can be purchased separately. Refer to page 6-21.

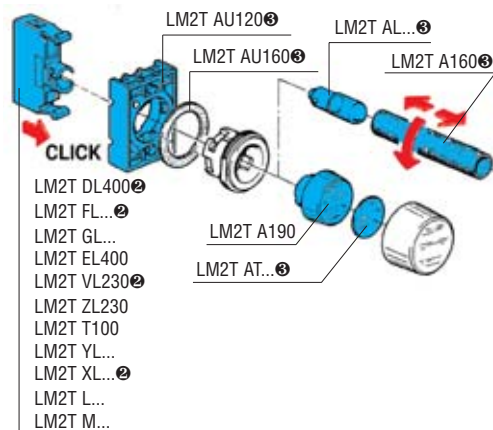
Pilot light head



8 LM2T IL10...

Order code	Colour	Qty per pkg	Wt
		n°	[kg]
Without mounting adapter.			
8 LM2T IL103	Green	10	0.024
8 LM2T IL104	Red	10	0.024
8 LM2T IL105	Yellow	10	0.024
8 LM2T IL106	Blue	10	0.024
8 LM2T IL107	Transparent	10	0.024
8 LM2T IL108	White	10	0.024
8 LM2T IL1187	Transparent ⚡ ❶	10	0.024

❶ With symbol indicating dangerous voltage (IEC 60417 5036-a).



❷ The mounting adapter is standard supplied so there is no need to purchase it as a separate accessory.

❸ Can be purchased separately. Refer to pages 6-20 and 21.

Operational characteristics

- Ambient operating temperature: -25...+60°C
- Ambient storage temperature: -40...+70°C
- Any mounting position is allowed
- Degree of protection: IP65.

Materials

An aluminium and zinc alloy (zama) is used for the metal part whereas plastic parts are made of polyamide and polycarbonate.

Mounting adapter

See page 6-17.

Type: LM2T AU120.

Actuators latch onto the mounting adapter by simple rotation.

The adapter is fixed to the mounting surface by means of incorporated screws (Tmax = 0.8 Nm).

Lamp-holder elements

See page 6-18.

Bulbs

Maximum recommended power for selectors: 1.2W.

See page 6-20.

Certifications and compliance

Certifications obtained: cULus, RINA, LROS, GOST.

Compliant with standards: IEC/EN 60947-1, IEC/EN 60947-5-1.

Potentiometer drive



8 LM2T P100

(complete with mounting adapter)



8 LM2T P110

(complete with mounting adapter)

Order code	Colour	Qty per pkg	Wt
		n°	[kg]
8 LM2T P100❷	With graduated scale	10	0.070
8 LM2T P110❷	With variable index	10	0.070

❷ Potentiometer not included, for assembly by the user.

Operational characteristics

- Suitable for potentiometers with 6-6.3mm diameter shaft
- Minimum 40mm shaft length
- Ambient operating temperature: -25...+60°C
- Ambient storage temperature: -40...+70°C
- Any mounting position is allowed
- Degree of protection: IP65 (warranted by potentiometers with a cylindrical shaft).

Materials

An aluminium and zinc alloy (zama) is used for the metal part whereas plastic parts are made of polyamide and polycarbonate.

Mechanical endurance

Mechanical life: 300,000 cycles.

Mounting adapter

Standard supply with actuator.

Actuators latch onto the mounting adapter by simple rotation.

The adapter is fixed to the mounting surface by means of incorporated screws (Tmax = 0.8 Nm).

Joysticks



8 LM2T J...
without mechanical interlock



8 LM2T J...
with mechanical interlock

Order code	Type of positions	N° auxiliary contacts	Qty per pkg	WT
		NO	n°	[kg]

Without mechanical interlock. Label holder excluded.
Complete with auxiliary contacts.

8 LM2T J200		2	1	0.082
8 LM2T J201		2	1	0.082
8 LM2T J400		4	1	0.104
8 LM2T J401		4	1	0.104

With mechanical interlock in centre position.
Label holder excluded. Complete with auxiliary contacts.

8 LM2T J210		2	1	0.082
8 LM2T J211		2	1	0.082
8 LM2T J410		4	1	0.104
8 LM2T J411		4	1	0.104

Operational characteristics

- Ambient operating temperature: -25...+60°C
- Ambient storage temperature: -40...+70°C
- Any mounting position is allowed
- Degree of protection: IP65.

Materials

An aluminium and zinc alloy (zama) is used for the metal parts whereas plastic parts are made of polyamide and polycarbonate.
The sealing boot is made of NBR rubber.

Mechanical endurance

Mechanical life: 1,000,000 cycles

Mounting adapter and auxiliary contacts

The joystick is standard supplied with the mounting adapter and auxiliary contacts.

The joystick latches onto the mounting adapter by simple rotation.

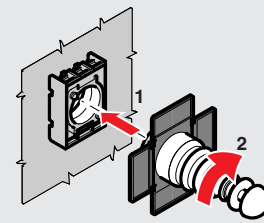
The adapter is fixed to the mounting surface by means of incorporated screws (Tmax = 0.8Nm).

Auxiliary contacts snap onto the mounting adapter.

Two LM2T CJ... contacts are mounted with the LM2T J2... types while four on the LM2T J4... versions.

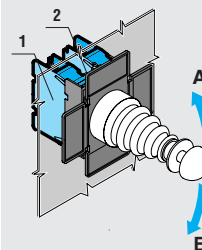
Terminal tightening torque: 1Nm.

IEC/EN 60947-5-1 contact designation: A/300, Q/300.

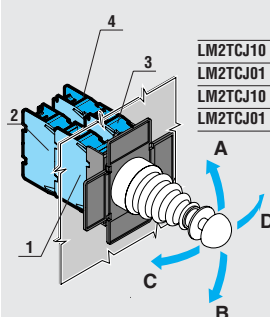


Joystick positions and contact energising

↑ 2 instable ↓ 2 stable - - 4 instable - - 4 stable



		↑ A	↓ B
LM2TCJ10	1	•	
	2		•



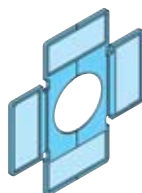
		↑ A	↓ B	← C	→ D
LM2TCJ10	1	•			
LM2TCJ01	2		•		
LM2TCJ10	3				•
LM2TCJ01	4			•	

Certifications and compliance

Certifications obtained: GOST, cULus for auxiliary contacts.

Compliant with standards: IEC/EN 60947-1, IEC/EN 60947-5-1.

Accessories



8 LM2T AU101

Order code	Description	Qty per pkg	Wt
		n°	[kg]
8 LM2T AU101	2-4 directional holder for adhesive legends	10	0.004

Push-button actuators, spring return



8 LP2T B10...



8 LP2T B20...



8 LP2T B30...

Push-button actuators, spring return with symbol



8 LP2T B11...



8 LP2T B21...

Order code	Colour	Qty per pkg	Wt
		n°	[kg]

Flush (complete with mounting adapter). Spring return.

8 LP2T B102	Black	10	0.025
8 LP2T B103	Green	10	0.025
8 LP2T B104	Red	10	0.025
8 LP2T B106	Blue	10	0.025
8 LP2T B109	Grey	10	0.025

Extended (complete with mounting adapter). Spring return.

8 LP2T B202	Black	10	0.027
8 LP2T B203	Green	10	0.027
8 LP2T B204	Red	10	0.027
8 LP2T B206	Blue	10	0.027
8 LP2T B208	White	10	0.027

Shrouded (complete with mounting adapter). Spring return.

8 LP2T B302	Black	10	0.027
8 LP2T B303	Green	10	0.027
8 LP2T B304	Red	10	0.027
8 LP2T B305	Yellow	10	0.027
8 LP2T B306	Blue	10	0.027
8 LP2T B308	White	10	0.027

Order code	Symbol	Colour	Qty per pkg	Wt
			n°	[kg]

Flush (complete with mounting adapter). Spring return.

8 LP2T B1102	O	Black	10	0.025
8 LP2T B1104		Red	10	0.025
8 LP2T B1113	I	Green	10	0.025
8 LP2T B1118		White	10	0.025
8 LP2T B1123		Green	10	0.025
8 LP2T B1128	II	White	10	0.025
8 LP2T B1132		Black	10	0.025
8 LP2T B1134	STOP	Red	10	0.025
8 LP2T B1142		Black	10	0.025
8 LP2T B1148	← ①	White	10	0.025
8 LP2T B1152		Black	10	0.025
8 LP2T B1158	↑ ②	White	10	0.025
8 LP2T B1163		Green	10	0.025
8 LP2T B1168	START	White	10	0.025
8 LP2T B1176		Blue	10	0.025
8 LP2T B1178		White	10	0.025
8 LP2T B1196	RESET	Blue	10	0.025
8 LP2T B1502	↔	Black	10	0.025
8 LP2T B1512		Black	10	0.025

Extended (complete with mounting adapter). Spring return.

8 LP2T B2102	O	Black	10	0.027
8 LP2T B2104		Red	10	0.027
8 LP2T B2132	STOP	Black	10	0.027
8 LP2T B2134		Red	10	0.027

① Arrow symbol can be used to indicate right or left.

② Arrow symbol can be used to indicate up or down.

Operational characteristics

- Ambient operating temperature: -25...+60°C
- Ambient storage temperature: -40...+70°C
- Any mounting position is allowed
- Degree of protection: IP65.

Materials

Polyamide and polycarbonate.

Mechanical endurance

Operating force: 0.8 kg (actuator).

Mechanical life: 1,000,000 cycles.

Mounting adapter

Standard supply with the actuator.

Actuators latch onto the mounting adapter by simple rotation.

The adapter is fixed to the mounting surface by means of incorporated screws (Tmax = 0.6 Nm).

Auxiliary contacts

See page 6-17.

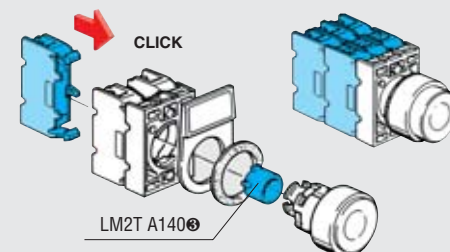
Type:

LM2T C10 (1NO)
 LM2T CF10 (1NO Faston)
 LM2T C10A (EM)
 LM2T C01 (1NC)
 LM2T CF01 (1NC Faston)
 LM2T C01D (LB)

Auxiliary contacts snap onto the mounting adapter.

Up to 6 auxiliary contacts can be fitted on the mounting adapter: 2 on the left, 2 at the centre and 2 on the right.

To mount the auxiliary contacts in the centre position, use the accessory: LM2T A140 (see page 6-21).



③ The action plug LM2T A140 for the centre position is not standard supplied and must be purchased separately.

Certifications and compliance

Certifications obtained: cULus, RINA, LROS, GOST.

Compliant with standards: IEC/EN 60947-1, IEC/EN 60947-5-1.

Push-push button actuators



8 LP2T Q10...



8 LP2T Q20...



Order code	Colour	Qty per pkg	Wt
		n°	[kg]

Flush (complete with mounting adapter).
Push on-push off.

8 LP2T Q102	Black	10	0.025
8 LP2T Q103	Green	10	0.025
8 LP2T Q104	Red	10	0.025
8 LP2T Q105	Yellow	10	0.025
8 LP2T Q106	Blue	10	0.025
8 LP2T Q108	White	10	0.025

Extended (complete with mounting adapter).
Push on-push off.

8 LP2T Q202	Black	10	0.027
8 LP2T Q203	Green	10	0.027
8 LP2T Q204	Red	10	0.027
8 LP2T Q205	Yellow	10	0.027
8 LP2T Q206	Blue	10	0.027
8 LP2T Q208	White	10	0.027

① Use the early-make type, LM2T C10A only.
No normally open contact element, 8 LM2T C10, must be used with this type of button actuators.
A maximum of 2 contact elements can be mounted only.

Mushroom head button actuators



8 LP2T B614...



8 LP2T B616...



8 LP2T B624...



8 LP2T B634...



8 LP2T B654...



8 LP2T B664...

Order code	Colour	Qty per pkg	Wt
		n°	[kg]

Spring return. Ø 40 mm
(complete with mounting adapter).

8 LP2T B6142	Black	10	0.033
8 LP2T B6143	Green	10	0.033
8 LP2T B6144	Red	10	0.033
8 LP2T B6145	Yellow	10	0.033
8 LP2T B6146	Blue	10	0.033

Spring return. Ø 60 mm
(complete with mounting adapter).

8 LP2T B6162	Black	10	0.038
8 LP2T B6163	Green	10	0.038
8 LP2T B6164	Red	10	0.038
8 LP2T B6165	Yellow	10	0.038
8 LP2T B6166	Blue	10	0.038

Latch, pull to release. Ø 40 mm
(complete with mounting adapter).

8 LP2T B6242	Black	10	0.097
8 LP2T B6244	Red	10	0.097

Latch, turn to release. Ø 40 mm
(complete with mounting adapter).

8 LP2T B6342	Black	10	0.046
8 LP2T B6344	Red	10	0.046

Latch, turn key to release. Ø 40 mm
(complete with mounting adapter).

8 LP2T B6542	Black	10	0.083
8 LP2T B6542G...②		1	0.083
8 LP2T B6544	Red	10	0.083
8 LP2T B6544G...②		1	0.083

Latch, turn to release, EN418 compliant Ø 40 mm
(complete with mounting adapter).

8 LP2T B6644	Red	10	0.079
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② Versions with different key codes
Complete with the numeric code of the key. The following versions are available: 501, 502, 503, 504, 505, 506, 507, 508, 509, 510.
Example of complete code: 8 LM2T B6542 G505.

Operational characteristics

- Ambient operating temperature: -25...+60°C
- Ambient storage temperature: -40...+70°C
- Any mounting position is allowed
- Degree of protection: IP65 for push-push and LP2T B654... actuators; IP66 for others.

Materials

Polyamide and polycarbonate.

Mechanical endurance

- Operating force: 0.8 kg (actuator).
- Mechanical life:
 - Push-push actuators: 500,000 cycles
 - Mushroom head buttons: 1,000,000 cycles
 - Mushroom head latch buttons: 300,000 cycles.

Mounting adapter

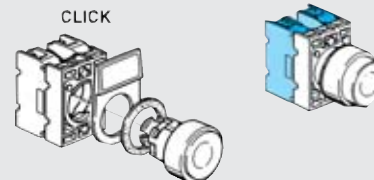
Standard supply with the actuator.
Actuators latch onto the mounting adapter by simple rotation.
The adapter is fixed to the mounting surface by means of incorporated screws (Tmax = 0.6 Nm)

Auxiliary contacts for push-push button actuators

See page 6-17.

Type: LM2T C10A (EM)
LM2T C01 (1NC)

Auxiliary contacts snap onto the mounting adapter.
Up to 2 auxiliary contacts can be fitted on the mounting adapter: 1 each on the right and left.



Auxiliary contacts for mushroom-head button actuators

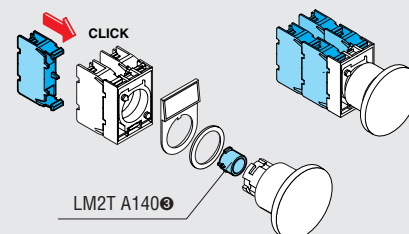
See page 6-17.

Type: LM2T C10 (1NO)
LM2T CF10 (1NO Faston)
LM2T C10A (EM)
LM2T C01 (1NC)
LM2T CF01 (1NC Faston)
LM2T C01D (LB)

Auxiliary contacts snap onto the mounting adapter
Up to 4 auxiliary contacts can be fitted on the mounting adapter with the LP2T B624... and LP2T B6644 types, 2 on the right and 2 on the left only.

Up to 6 auxiliary contacts can be fitted on the mounting adapter with all the rest: 2 on the right, 2 at the centre and 2 on the left.

To mount the auxiliary contacts in the centre position use the accessory: LM2T A140 (see page 6-21).



③ The action plug LM2T A140 for the centre position is not standard supplied and must be purchased separately.

Certifications and compliance

Certifications obtained: cULus, RINA, LROS, GOST.
Compliant with standards: IEC/EN 60947-1, IEC/EN 60947-5-1.

Mechanical reset buttons, complete unit, spring return



8 LP2T R1196

Order code	Colour	Qty per pkg	Wt
		n°	[kg]

Flush (5.2 mm stroke). Spring return.
Adjustable length 0-123 mm.

8 LP2T R1002	Black	10	0.038
8 LP2T R1003	Green	10	0.038
8 LP2T R1004	Red	10	0.038
8 LP2T R1006	Blue	10	0.038
8 LP2T R1196	Blue (RESET)	10	0.038

Extended (5.2 mm stroke). Spring return.
Adjustable length 0-123 mm.

8 LP2T R2004	Red	10	0.040
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With "RESET" caption on the actuator

Double-touch actuators, spring return

6



8 LP2T B71...



8 LP2T B72...

Order code	Colour	Symbols	Qty per pkg	Wt
			n°	[kg]

Two flush push buttons (complete with mounting adapter).
Both spring return.

8 LP2T B7112	Black/Red	none	10	0.030
8 LP2T B7113	Green/Red	none	10	0.030
8 LP2T B7114	White/Black	none	10	0.030
8 LP2T B7122	Black/Red	I-O	10	0.030
8 LP2T B7123	Green/Red	I-O	10	0.030
8 LP2T B7124	White/Black	I-O	10	0.030
8 LP2T B7133	Green/Red	Start/Stop	10	0.030

One extended and one flush push buttons (complete with mounting adapter). Both spring return.

8 LP2T B7212	Black/Red	none	10	0.030
8 LP2T B7213	Green/Red	none	10	0.030
8 LP2T B7214	White/Black	none	10	0.030
8 LP2T B7222	Black/Red	I-O	10	0.030
8 LP2T B7223	Green/Red	I-O	10	0.030
8 LP2T B7224	White/Black	I-O	10	0.030
8 LP2T B7233	Green/Red	Start/Stop	10	0.030

Triple-touch actuators, spring return



8 LP2T B73...

Order code	Symbols	Qty per pkg	Wt
		n°	[kg]

Two external flush and one middle extended buttons.
All spring return. Complete with mounting adapter.

8 LP2T B7345		10	0.028
8 LP2T B7355		10	0.028
8 LP2T B7365		10	0.028
8 LP2T B7375		10	0.028

Operational characteristics

- Ambient operating temperature: -25...+60°C
- Ambient storage temperature: -40...+70°C
- Any mounting position is allowed.
- Degree of protection: IP65 for mechanical reset buttons; IP40 for double and triple-touch actuators.

Materials

Polyamide and polycarbonate.

Mechanical endurance

Operating force: 0.8 kg (actuator).
Mechanical life: 1,000,000 cycles.

Mounting adapter

Standard supply with the actuator.
Actuators latch onto the mounting adapter by simple rotation.

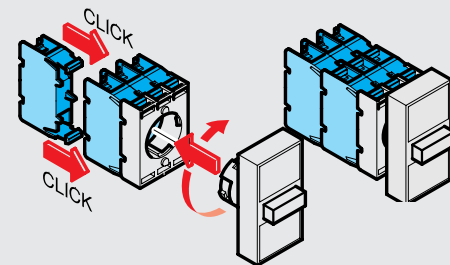
The adapter is fixed to the mounting surface by means of incorporated screws (Tmax = 0.6 Nm).

Auxiliary contacts for touch actuators

See page 6-17.

Type: LM2T C10 (1NO)
LM2T CF10 (1NO Faston)
LM2T C10A (EM)
LM2T C01 (1NC)
LM2T CF01 (1NC Faston)
LM2T C01D (LB)

Auxiliary contacts snap onto the mounting adapter.



DOUBLE-TOUCH ACTUATORS

Up to 4 auxiliary contacts can be fitted on the mounting adapter: 2 on the left and 2 on the right.

TRIPLE-TOUCH ACTUATORS

Up to 6 auxiliary contacts can be fitted on the mounting adapter: 2 on the left, 2 in the centre and 2 on the right.

Certifications and compliance

Certifications obtained: cULus, RINA, LROS, GOST.
Compliant with standards: IEC/EN 60947-1, IEC/EN 60947-5-1.

Selector actuators knob



8 LP2T S1...

Order code	Type of positions	Qty per pkg n°	Wt [kg]
2 position (complete with mounting adapter).			
8 LP2T S120	↘	10	0.037
8 LP2T S121	↘	10	0.037
3 position (complete with mounting adapter).			
8 LP2T S130	↘↘	10	0.037
8 LP2T S131	↘↘	10	0.037
8 LP2T S132	↘↘	10	0.037
8 LP2T S133	↘↘	10	0.037

Selector actuators lever



8 LP2T S2...

Order code	Type of positions	Qty per pkg n°	Wt [kg]
2 position (complete with mounting adapter).			
8 LP2T S220	↘	10	0.037
8 LP2T S221	↘	10	0.037
3 position (complete with mounting adapter).			
8 LP2T S230	↘↘	10	0.037
8 LP2T S231	↘↘	10	0.037
8 LP2T S232	↘↘	10	0.037
8 LP2T S233	↘↘	10	0.037

Selector actuators key



8 LP2T S3...

Order code	Type of positions	Qty per pkg n°	Wt [kg]
2 position (complete with mounting adapter).			
8 LP2T S320	↘	10	0.060
8 LP2T S320G...①	↘	1	0.060
8 LP2T S321	↘	10	0.060
8 LP2T S321G...①	↘	1	0.060
8 LP2T S340	↘	10	0.060
8 LP2T S340G...①	↘	1	0.060
3 position (complete with mounting adapter).			
8 LP2T S330	↘↘	10	0.060
8 LP2T S330G...①	↘↘	1	0.060
8 LP2T S331	↘↘	10	0.060
8 LP2T S331G...①	↘↘	1	0.060
8 LP2T S332②	↘↘	10	0.060
8 LP2T S332G...①②	↘↘	1	0.060
8 LP2T S333②	↘↘	10	0.060
8 LP2T S333G...①②	↘↘	1	0.060
8 LP2T S350	↘↘	10	0.060
8 LP2T S350G...①	↘↘	1	0.060
8 LP2T S360	↘↘	10	0.060
8 LP2T S360G...①	↘↘	1	0.060
8 LP2T S370②	↘↘	10	0.060
8 LP2T S370G...①②	↘↘	1	0.060
8 LP2T S380②	↘↘	10	0.060
8 LP2T S380G...①②	↘↘	1	0.060
8 LP2T S390②	↘↘	10	0.060
8 LP2T S390G...①②	↘↘	1	0.060

① Versions with different key codes.

Complete with the numeric code of the key. The following versions are available: 501, 502, 503, 504, 505, 506, 507, 508, 509, 510.

Example of complete code: 8 LP2T S320 G505.

② Available only on specific request.

Operational characteristics

- Ambient operating temperature: -25...+60°C
- Ambient storage temperature: -40...+70°C
- Any mounting position is allowed
- Degree of protection: IP65.

Materials

Polyamide and polycarbonate.

Mechanical endurance

Mechanical life: 300,000 cycles.

Mounting adapter

Standard supply with the actuator.

Actuators latch onto the mounting adapter by simple rotation.

The adapter is fixed to the mounting surface by means of incorporated screws (Tmax = 0.6 Nm).

Auxiliary contacts

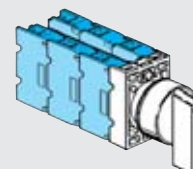
See page 6-17.

Type:

LM2T C10 (1NO)
LM2T CF10 (1NO Faston)
LM2T C10A (EM)
LM2T C01 (1NC)
LM2T CF01 (1NC Faston)
LM2T C01D (LB)

Auxiliary contacts snap onto the mounting adapter.

Up to 6 auxiliary contacts can be fitted on the mounting adapter: 3 on the left and 3 on the right.



Positions

- ↘ Stay put position.
- ↘ Spring return position.
- ↘ • Key extraction position.

Angles

2 position



3 position



Special versions

Versions with coloured keys are available upon request. Contact our Customer Service (Tel. +39 035 4282422).

Certifications and compliance

Certifications obtained: cULus, RINA, LROS, GOST. Compliant with standards: IEC/EN 60947-1, IEC/EN 60947-5-1.

Illuminated button actuators, spring return



8 LP2T BL10...



8 LP2T BL20...

Order code	Colour	Qty per pkg	Wt
		n°	[kg]

Flush (with side visibility) (complete with mounting adapter).
Spring return.

8 LP2T BL103	Green	10	0.025
8 LP2T BL104	Red	10	0.025
8 LP2T BL105	Yellow	10	0.025
8 LP2T BL106	Blue	10	0.025
8 LP2T BL107	Transparent	10	0.025

Extended (complete with mounting adapter).
Spring return.

8 LP2T BL203	Green	10	0.027
8 LP2T BL204	Red	10	0.027
8 LP2T BL205	Yellow	10	0.027
8 LP2T BL206	Blue	10	0.027
8 LP2T BL207	Transparent	10	0.027

Operational characteristics

- Ambient operating temperature: -25...+60°C
- Ambient storage temperature: -40...+70°C
- Any mounting position is allowed
- Degree of protection: IP65.

Materials

Polyamide and polycarbonate.

Mechanical endurance

Operating force: 0.8 kg (actuator).
Mechanical life: 500,000 cycles for push-push actuators;
1,000,000 cycles for others.

Mounting adapter

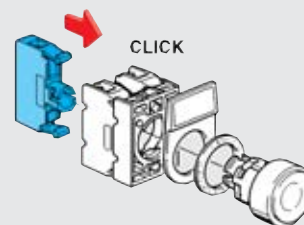
Standard supply with the actuator.
Actuators latch onto the mounting adapter by simple rotation.
The adapter is fixed to the mounting surface by means of incorporated screws (Tmax = 0.6 Nm).

Auxiliary contacts for illuminated push-push actuators:

See page 6-17.

Type: LM2T C10A (EM)
LM2T C01 (1NC)

Auxiliary contacts snap onto the mounting adapter.
Up to 2 auxiliary contacts can be fitted on the mounting adapter in a row, 1 each on the right and left, along with the lamp-holder in the centre position, of which LM2T EL400, LM2T ZL230, LM2T L... or LM2T M... (see page 6-18).
With lamp-holder LM2T YL... or LM2T GL..., one auxiliary contact can be mounted only (see page 6-18).



Auxiliary contacts for illuminated button or mushroom-head actuators

See page 6-17.

Type: LM2T C10 (1NO)
LM2T CF10 (1NO Faston)
LM2T C10A (EM)
LM2T C01 (1NC)
LM2T CF01 (1NC Faston)
LM2T C01D (LB)

Auxiliary contacts snap onto the mounting adapter.

- Up to 4 auxiliary contacts can be fitted on the mounting adapter when the following types of lamp-holders are used: LM2T EL400, LM2T ZL230, LM2T L... or LM2T M... (see page 6-18).
- Up to 2 auxiliary contacts can be fitted on the mounting adapter when the following types of lamp-holders are used: LM2T YL... or LM2T GL... (see page 6-18).

Lamp-holder elements

See page 6-18.

Bulbs

Maximum recommended power: 1.2W.
See page 6-20.

Certifications and compliance

Certifications obtained: cULus, RINA, LROS, GOST.
Compliant with standards: IEC/EN 60947-1, IEC/EN 60947-5-1.

6

Push-push button actuators



8 LP2T QL10...



8 LP2T QL20...



Order code	Colour	Qty per pkg	Wt
		n°	[kg]

Flush (complete with mounting adapter).
Push on-push off.

8 LP2T QL102	Black	10	0.025
8 LP2T QL103	Green	10	0.025
8 LP2T QL104	Red	10	0.025
8 LP2T QL105	Yellow	10	0.025
8 LP2T QL106	Blue	10	0.025
8 LP2T QL108	Transparent	10	0.025

Extended (complete with mounting adapter).
Push on-push off.

8 LP2T QL202	Black	10	0.027
8 LP2T QL203	Green	10	0.027
8 LP2T QL204	Red	10	0.027
8 LP2T QL205	Yellow	10	0.027
8 LP2T QL206	Blue	10	0.027
8 LP2T QL208	White	10	0.027

① Use the early-make type, LM2T C10A only.
No normally open contact element, 8 LM2T C10, must be used with this type of button actuators.
A maximum of 2 contact elements can be mounted only.

Illuminated mushroom head button actuators



8 LP2T BL614...

Order code	Colour	Qty per pkg	Wt
		n°	[kg]

Spring return. Ø 40 mm (complete with mounting adapter)②.

8 LP2T BL6143	Green	10	0.035
8 LP2T BL6144	Red	10	0.035
8 LP2T BL6145	Yellow	10	0.035
8 LP2T BL6146	Blue	10	0.035
8 LP2T BL6148	White	10	0.035

② The number of auxiliary contacts to be mounted is given in the side notes.

Illuminated selector actuators



8 LP2T SL1...

Orde code	Colour	Type of positions	Qty per pkg	Wt
			n°	[kg]
2 position (complete with mounting adapter).				
8 LP2T SL1203	Green	✓	10	0.025
8 LP2T SL1204	Red		10	0.025
8 LP2T SL1205	Yellow		10	0.025
8 LP2T SL1206	Blue		10	0.025
8 LP2T SL1208	White		10	0.025
8 LP2T SL1213	Green	✓	10	0.025
8 LP2T SL1214	Red		10	0.025
8 LP2T SL1215	Yellow		10	0.025
8 LP2T SL1216	Blue		10	0.025
8 LP2T SL1218	White		10	0.025
3 position (complete with mounting adapter).				
8 LP2T SL1303	Green	↘	10	0.025
8 LP2T SL1304	Red		10	0.025
8 LP2T SL1305	Yellow		10	0.025
8 LP2T SL1306	Blue		10	0.025
8 LP2T SL1308	White		10	0.025
8 LP2T SL1313	Green	↘	10	0.025
8 LP2T SL1314	Red		10	0.025
8 LP2T SL1315	Yellow		10	0.025
8 LP2T SL1316	Blue		10	0.025
8 LP2T SL1318	White		10	0.025
8 LP2T SL1323	Green	↘	10	0.025
8 LP2T SL1324	Red		10	0.025
8 LP2T SL1325	Yellow		10	0.025
8 LP2T SL1326	Blue		10	0.025
8 LP2T SL1328	White		10	0.025
8 LP2T SL1333	Green	↘	10	0.025
8 LP2T SL1334	Red		10	0.025
8 LP2T SL1335	Yellow		10	0.025
8 LP2T SL1336	Blue		10	0.025
8 LP2T SL1338	White		10	0.025

Operational characteristics

- Ambient operating temperature: -25...+60°C
- Ambient storage temperature: -40...+70°C
- Any mounting position is allowed
- Degree of protection: IP65 for selectors; IP40 for double touch actuators.

Materials

Polyamide and polycarbonate.

Mechanical endurance

Operating force: 0.8 kg (actuator).
Mechanical life for push-buttons: 1,000,000 cycles.

Mounting adapter of double-touch actuators

Standard supply with the actuator.
Actuators latch onto the mounting adapter by simple rotation.

The adapter is fixed to the mounting surface by means of incorporated screws (Tmax = 0.6 Nm).

Auxiliary contacts

See page 6-17.

Type: LM2T C10 (1NO)
LM2T CF10 (1NO Faston)
LM2T C10A (EM)
LM2T C01 (1NC)
LM2T CF01 (1NC Faston)
LM2T C01D (LB)

SELECTOR ACTUATORS

On 2-position illuminated selectors, the following can be fitted on the mounting adapter:

- Up to 4 auxiliary contacts when the following types of lamp-holders are used: LM2T EL400, LM2T ZL230, LM2T L... or LM2T M... (see page 6-18).
- Up to 2 auxiliary contacts when the following types of lamp-holders are used: LM2T YL... or LM2T GL... (see page 6-18).

On 3-position illuminated selectors, the following can be fitted on the mounting adapter:

- Up to 4 auxiliary contacts when the types of lamp-holders are used: LM2T EL400, LM2T ZL230, LM2T L... or LM2T M... (see page 6-18).

NOTE: The LM2T YL... or LM2T GL... types of lamp-holders cannot be mounted.

DOUBLE-TOUCH ACTUATORS

Up to 4 auxiliary contacts can be fitted on the mounting adapter: 2 on the left and 2 on the right.

Selector positions

- ✓ Stay put position.
- ✓ Spring return position.

Selector angles

2 position



3 position



Lamp-holder elements for selectors

See page 6-18.

Lamp-holder elements for double touch actuators

Use lamp-holder type LM2T EL400, LM2T ZL230, LM2T GL..., LM2T L... or LM2T M... See page 6-18.

Bulbs

Maximum recommended power: 1.2W.
See page 6-20.

Certifications and compliance

Certifications obtained: cULus, RINA, LROS, GOST.
Compliant with standards: IEC/EN 60947-1, IEC/EN 60947-5-1.

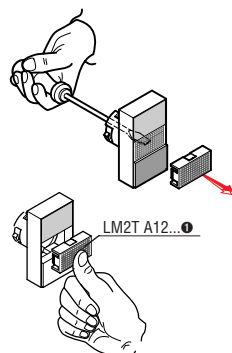
Double touch actuators, spring return with white indicator



8 LP2T BL711...



8 LP2T BL721...



❶ The actuator is standard supplied with a white diffuser. Coloured diffusers LM2T A12... can be purchased separately. Refer to page 6-21.

Order code	Colour	Symbol	Qty per pkg	Wt
			n°	[kg]
Two flush push-buttons (complete with mounting adapter). Both spring return.				
8 LP2T BL7112	Black/Red	none	10	0.028
8 LP2T BL7113	Green/Red	none	10	0.028
8 LP2T BL7114	White/Black	none	10	0.028
8 LP2T BL7122	Black/Red	I-O	10	0.028
8 LP2T BL7123	Green/Red	I-O	10	0.028
8 LP2T BL7124	White/Black	I-O	10	0.028
8 LP2T BL7133	Green/Red	Start/Stop	10	0.028
One extended push-button (complete with mounting adapter). Both spring return.				
8 LP2T BL7212	Black/Red	none	10	0.028
8 LP2T BL7213	Green/Red	none	10	0.028
8 LP2T BL7214	White/Black	none	10	0.028
8 LP2T BL7222	Black/Red	I-O	10	0.028
8 LP2T BL7223	Green/Red	I-O	10	0.028
8 LP2T BL7224	White/Black	I-O	10	0.028
8 LP2T BL7233	Green/Red	Start/Stop	10	0.028

LED integrated monoblock pilot lights, steady light



new

Order code	Voltage	LED colour	Qty per pkg	Wt
			n°	[kg]
8 LP2T ILB3	24VAC/DC	Green	10	0.021
8 LP2T ILB4		Red	10	0.021
8 LP2T ILB5		Yellow	10	0.021
8 LP2T ILB6		Blue	10	0.021
8 LP2T ILB8		White	10	0.021
8 LP2T ILE3	110VAC	Green	10	0.024
8 LP2T ILE4		Red	10	0.024
8 LP2T ILE5		Yellow	10	0.024
8 LP2T ILE6		Blue	10	0.024
8 LP2T ILE8		White	10	0.024
8 LP2T ILM3	230VAC	Green	10	0.024
8 LP2T ILM4		Red	10	0.024
8 LP2T ILM5		Yellow	10	0.024
8 LP2T ILM6		Blue	10	0.024
8 LP2T ILM8		White	10	0.024

Operational characteristics

- Supply voltage: 24VAC/DC; 110VAC; 230VAC
- Electrical life: >30,000 hours
- Screw termination
- Maximum tightening torque: 0.8Nm
- Side cable entry
- Ambient operating temperature: -5...+40°C
- Degree of protection: IP20.

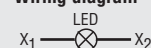
Materials

Polyamide and polycarbonate.

Maximum conductor cross section

1 or 2 1.5mm² or AWG16 cables.

Wiring diagram



Certifications and compliance

Certifications obtained: cULus.

Compliant with standards: IEC/EN 60947-1, IEC/EN 60947-5-1.

Monoblock pilot lights (with diffuser)



8 LP2T IL21...



8 LP2T IL22...



8 LP2T IL23...①

① LP2T IL23... pilot lights have Faston terminals, 1-6.35 or 2-2.8mm...

Order code	Colour	Lamp supplied	Qty per pkg	Wt
			n°	[kg]
Screw terminals without protection.				
8 LP2T IL213	Green	no	10	0.023
8 LP2T IL214	Red	no	10	0.023
8 LP2T IL215	Yellow	no	10	0.023
8 LP2T IL216	Blue	no	10	0.023
8 LP2T IL217	Transparent	no	10	0.023
Screw terminals with protection.				
8 LP2T IL223	Green	no	10	0.024
8 LP2T IL224	Red	no	10	0.024
8 LP2T IL225	Yellow	no	10	0.024
8 LP2T IL226	Blue	no	10	0.024
8 LP2T IL227	Transparent	no	10	0.024
Faston terminals without protection①.				
8 LP2T IL233	Green	no	10	0.021
8 LP2T IL234	Red	no	10	0.021
8 LP2T IL235	Yellow	no	10	0.021
8 LP2T IL236	Blue	no	10	0.021
8 LP2T IL237	Transparent	no	10	0.021

Operational characteristics

- Ambient operating temperature: -25...+60°C
- Ambient storage temperature: -40...+70°C
- Any mounting position is allowed
- Degree of protection: IP65 for pilot lights.

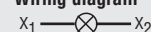
Materials

Polyamide and polycarbonate.

Maximum conductor cross section

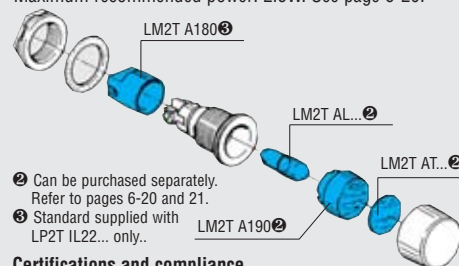
1 or 2 1.5mm² or AWG16 cables.

Wiring diagram



Bulbs

Maximum recommended power: 2.6W. See page 6-20.



② Can be purchased separately.

Refer to pages 6-20 and 21.

③ Standard supplied with LP2T IL22... only..

Certifications and compliance

Certifications obtained: cULus, RINA, LROS, GOST.

Compliant with standards: IEC/EN 60947-1, IEC/EN 60947-5-1.

Empty control station enclosures



8 L2PP 2A8

Order code	Description	Cover colour	Qty per pkg.	Wt
			n°	[kg]
8 L2PP 1A5	For 1 actuator	Yellow	1	0.138
8 L2PP 1A8	For 1 actuator	White	1	0.138
8 L2PP 2A8	For 2 actuators	White	1	0.198
8 L2PP 3A8	For 3 actuators	White	1	0.213
8 L2PP 4A8	For 4 actuators	White	1	0.253
8 L2PP 5A8	For 5 actuators	White	1	0.275

General characteristics

Control stations have cable entry through the top or the bottom and come fitted with a conduit (21.3 mm entry diameter).

Operational characteristics

- Degree of protection: IP65 using adequate cable glands, not included in the supply. IP52 for L2PP 5A8 only.
- Tightening torque of cover fixing screws: 0.8 Nm.

Materials

Self-extinguishing ABS plastic.

Complete control stations



8 L2PP 160

① Red mushroom head, turn to release, yellow cover (EN418 compliant), no label and no label holder.

Order code	Description	Qty per pkg.	Wt
	Enclosure + actuator	n°	[kg]
8 L2PP 100	8 L2PP 1A8 + 8 LP2T B6244	1	0.264
8 L2PP 110	8 L2PP 1A8 + 8 LP2T B6344	1	0.213
8 L2PP 115	8 L2PP 1A5 + 8 LP2T B6344	1	0.213
8 L2PP 120	8 L2PP 1A8 + 8 LP2T B6544	1	0.250
8 L2PP 130①	8 L2PP 1A5 + 8 LP2T B6644	1	0.244
8 L2PP 150	8 L2PP 1A8 + 8 LM2T B6244	1	0.291
8 L2PP 160	8 L2PP 1A8 + 8 LM2T B6344	1	0.240
8 L2PP 165	8 L2PP 1A5 + 8 LM2T B6344	1	0.240
8 L2PP 170	8 L2PP 1A8 + 8 LM2T B6544	1	0.277
8 L2PP 180①	8 L2PP 1A5 + 8 LM2T B6644	1	0.271

General characteristics

Control stations are supplied assembled and complete with the indicated push-button actuator, mounting adapter, legend holder, "STOP" label (except for L2PP 155, L2PP 130, L2PP 165 and L2PP 180) and one NC auxiliary contact. Control stations have cable entry through the top of the bottom and come fitted with a conduit (21.3 mm entry diameter).

Operational characteristics

- Degree of protection: IP65 using adequate cable glands, not included in the supply.
- Tightening torque of cover fixing screws: 0.8 Nm.

Materials

Self-extinguishing ABS plastic.

Add-on contact elements

Mounting adapter



8 LM2T AU120

Order code	Description	Qty per pkg	Wt
		n°	[kg]

Only for metal series actuators.

8 LM2T AU120	Mounting adapter	10	0.019
--------------	------------------	----	-------

Metal series actuators are supplied without mounting adapter. Plastic series actuators are supplied complete with mounting adapter (type LP2T AU120).

Contact elements



8 LM2T C...



8 LM2T E...



8 LM2T CF01



8 LM2T CF10

Order code	Function	Qty per pkg	Wt
		n°	[kg]

Screw termination.
Without mounting adapter.

8 LM2T C10①	1.3 1.4 NO①	10	0.011
8 LM2T C10A	1.7 1.8 EM②	10	0.011
8 LM2T C01③	1.1 1.2 NC③	10	0.011
8 LM2T C01D④	1.5 1.6 LB④④	10	0.011

Screw termination.
With mounting adapter for actuators metal series LM2T... only.

8 LM2T E10①	1.3 1.4 NO①	10	0.029
8 LM2T E01③	1.1 1.2 NC③	10	0.029

Faston connection.
Without mounting adapter.

8 LM2T CF10①	1.3 1.4 NO①	10	0.012
8 LM2T CF01	1.1 1.2 NC③	10	0.012

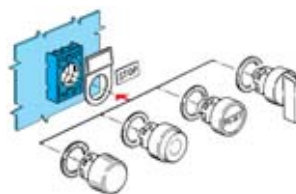
① Not suitable for push-push actuators. Use LM2T C10A (EM) or LM2T C01 (NC) type only with push-push actuators.

② Normally open contact with early make operation.

③ Direct opening operation Ⓜ in accordance with IEC/EN 60947-5-1.

④ Normally closed contact with late break operation.

Assembly

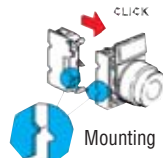


Actuators latch onto the mounting adapter by simple rotation.

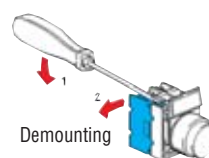
Fixing to the mounting surface is by means of incorporated screws (Tmax = 0.8 Nm).



Auxiliary contacts snap onto the mounting adapter.



Mounting



Demounting

Operational characteristics

- Ambient operating temperature: -25...+60°C
- Ambient storage temperature: -40...+70°C
- Any mounting position is allowed
- Degree of protection:
 - IP20 for contacts elements with screw termination
 - IP00 for contact elements with Faston connection.

General characteristics of the auxiliary contacts

Self-cleaning with dual effect, scraping and oscillating

Rated insulation voltage: 690V

Rated thermal current Ith: 10A

Designation according to IEC 60947-5-1: A600 Q600

Operational power in AC15:

[V]	12	24	48	120	240	400	480	500	600
-----	----	----	----	-----	-----	-----	-----	-----	-----

[A]	6	6	6	6	3	1.9	1.5	1.4	1.2
-----	---	---	---	---	---	-----	-----	-----	-----

Operational power in DC13:

[V]	12	24	48	125	250	440	500	600
-----	----	----	----	-----	-----	-----	-----	-----

[A]	3	3	1.5	0.55	0.27	0.15	0.13	0.1
-----	---	---	-----	------	------	------	------	-----

Short-circuit protection fuse: max. calibre 10A gG

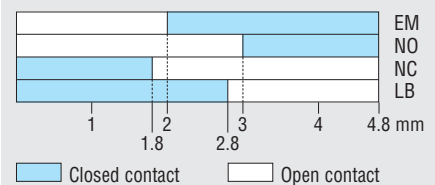
Contact capacity: ≤20 mΩ

Terminals: Clamp screw with washer

Faston 1-6.35mm or 2-2.8mm

Maximum tightening torque: 1 Nm (Faston excluded).

Stroke of auxiliary contacts



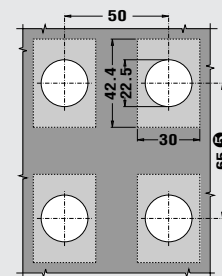
Maximum conductor section for screw termination

1 or 2 2.5 mm² or AWG12 cables.

Mechanical and electrical endurance

Operating force: 0.5 kg (auxiliary contacts).

Electrical life:	LM2T C10	1,000,000 cycles
	LM2T CF10	1,000,000 cycles
	LM2T C01	1,000,000 cycles
	LM2T CF01	1,000,000 cycles
	LM2T C10A	600,000 cycles
	LMET C01D	600,000 cycles



⑤ When using Faston, vertical interaxes is 90mm minimum.

Certifications and compliance

Certifications obtained: cULus, RINA, LROS, GOST.

Compliant with standards: IEC/EN 60947-1, IEC/EN 60947-5-1.

Lamp-holders without mounting adapter



8 LM2T EL400 8 LM2T ZL230
8 LM2T YL... 8 LM2T GL...



8 LM2T T100

Order code	Voltage	Bulb supplied	Qty per pkg	Wt
	[V]		n°	[kg]

For actuators of plastic and metal series.
Supplied without mounting adapter. Direct supply.

8 LM2T EL400	≤415V	no	10	0.011
--------------	-------	----	----	-------

With resistor and diode.

8 LM2T ZL230	230VAC 50/60Hz	yes 130V (2W)	10	0.015
--------------	-------------------	------------------	----	-------

With transformer.

8 LM2T YL110	110-120VAC 50/60Hz	yes 24V (1.2W)	1	0.086
--------------	-----------------------	-------------------	---	-------

8 LM2T YL230	220-240VAC 50/60Hz	yes 24V (1.2W)	1	0.084
--------------	-----------------------	-------------------	---	-------

8 LM2T YL400	380-415VAC 50/60Hz	yes 24V (1.2W)	1	0.087
--------------	-----------------------	-------------------	---	-------

Flashing.

8 LM2T GL048	24-48VAC	no	1	0.027
--------------	----------	----	---	-------

8 LM2T GL230	110-230VAC	no	1	0.027
--------------	------------	----	---	-------

Test element for lamp-holders.

8 LM2T T100	Test element		10	0.011
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Lamp-holders with mounting adapter



8 LM2T DL400 - 8 LM2T VL230



8 LM2T XL... - 8 LM2T FL...

Order code	Voltage	Bulb supplied	Qty per pkg	Wt
	[V]		n°	[kg]

Only for actuators of metal series.
Supplied complete with mounting adapter. Direct supply.

8 LM2T DL400	≤415VAC	no	10	0.029
--------------	---------	----	----	-------

With resistor and diode.

8 LM2T VL230	230VAC 50/60Hz	yes 130V (2W)	10	0.032
--------------	-------------------	------------------	----	-------

With transformer.

8 LM2T XL110	110-120VAC 50/60Hz	yes 24V (1.2W)	1	0.105
--------------	-----------------------	-------------------	---	-------

8 LM2T XL230	220-240VAC 50/60Hz	yes 24V (1.2W)	1	0.103
--------------	-----------------------	-------------------	---	-------

8 LM2T XL400	380-415VAC 50/60Hz	yes 24V (1.2W)	1	0.106
--------------	-----------------------	-------------------	---	-------

Flashing.

8 LM2T FL048	24-48VAC	no	1	0.046
--------------	----------	----	---	-------

8 LM2T FL230	110-230VAC	no	1	0.046
--------------	------------	----	---	-------

LED integrated lamp-holder steady or flashing light



8 LM2T LM3

Order code for steady light	Order code for flashing light	Voltage ①	LED colour	Qty per pkg	Wt
		[V]		n°	[kg]

For metal and plastic actuators ②.
Supplied without mounting adapter.

8 LM2T LB3	8 LM2T MB3	18-30V AC/DC	Green	10	0.016
8 LM2T LB4	8 LM2T MB4		Red	10	0.016
8 LM2T LB5	8 LM2T MB5		Yellow	10	0.016
8 LM2T LB6	8 LM2T MB6		Blue	10	0.016
8 LM2T LB8	8 LM2T MB8		White	10	0.016
8 LM2T LE3	8 LM2T ME3	85-140V AC	Green	10	0.016
8 LM2T LE4	8 LM2T ME4		Red	10	0.016
8 LM2T LE5	8 LM2T ME5		Yellow	10	0.016
8 LM2T LE6	8 LM2T ME6		Blue	10	0.016
8 LM2T LE8	8 LM2T ME8		White	10	0.016
8 LM2T LM3	8 LM2T MM3	187-265V AC	Green	10	0.016
8 LM2T LM4	8 LM2T MM4		Red	10	0.016
8 LM2T LM5	8 LM2T MM5		Yellow	10	0.016
8 LM2T LM6	8 LM2T MM6		Blue	10	0.016
8 LM2T LM8	8 LM2T MM8		White	10	0.016

Operational characteristics

- Ambient operating temperature: -25...+60°C
- Ambient storage temperature: -40...+70°C
- Any mounting position is allowed
- Tightening torque: 1Nm
- Degree of protection: IP20.

Maximum conductor section

1 or 2 2.5 mm² or AWG12 cables.

Wiring diagram

Direct supply
LM2T EL400
LM2T DL400



With resistor and diode
LM2T ZL230
LM2T VL230



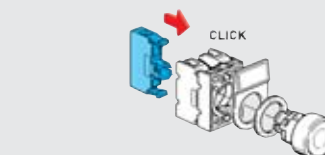
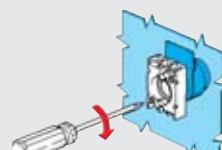
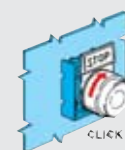
With transformer
LM2T YL...
LM2T XL...



Flashing
LM2T GL...
LM2T FL...



Test element
LM2T T100



Certifications and compliance

Certifications obtained: cULus, RINA, LROS, GOST.
Compliant with standards: IEC/EN 60947-1, IEC/EN 60947-5-1.

- ① Filament bulb, BA9s U_s≤130VAC/DC max 2.6W (not supplied); maximum dimensions 11x28 mm. For higher voltages, use neon bulbs.
- ② Not suitable for 3-position selectors.
- ③ Filament bulb, BA9s (not supplied); maximum dimensions 11x28 mm. Suitable for AC duty only. Use bulbs with rated voltage equal to that of the power supply. E.g.: With LM2T FL230 use 110VAC bulbs if power supply is 110VAC and 230VAC bulbs if power supply 230VAC. 2.6W max bulb rating.
- ④ MultiLED bulbs must not be fitted.
- ⑤ In case of test circuits for lamp-holders having load in parallel, two LM2T T100 elements are required for each bulb. Refer to the wiring diagram attached to the product or contact our Customer Service (Tel. +39 035 4282422).
- ⑥ In case of neon bulbs, contact our Customer Service (Tel. +39 035 4282422).
- ⑦ Luminosity is reduced during testing of lamp-holder LM2T L... and LM2T M... types.

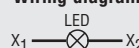
Operational characteristics

- Operating voltage: 18-30VAC/DC; 85-140VAC; 187-265VAC
- Maximum consumption:
 - 33mA for 18-30VAC/DC
 - 28mA for 85-140VAC
 - 25mA for 187-265VAC
- Electric life: 100,000 hours
- Ambient operating temperature: -25...+60°C
- Ambient storage temperature: -40...+70°C
- Any mounting position is allowed
- Tightening torque: 1Nm
- Degree of protection: IP20.

Maximum conductor section

1 or 2 2.5 mm² or AWG12 cables.

Wiring diagram



Certifications and compliance

Certifications obtained: cULus.
Compliant with standards: IEC/EN 60947-1, IEC/EN 60947-5-1.

- ① Steady-light 9-15VAC/DC types are available on request; contact our Customer Service (Tel. +39 035 4282422).
- ② Luminosity is reduced during test with test element LM2T T100

Labels with text for LM2T AU100 legend holder



8 LM2T AGB230



Ordering code	Text	Qty per pkg	Wt
		n°	[kg]
General use.			
8 LM2T AU206	Blank for writing	50	0.001
8 LM2T AU207	Sheet with 108 labels for laser printing ^①	1 ^②	0.005
8 LM2T AU208 ^③	Sheet with 108 laser-printed labels ^①	1 ^②	0.005
8 LM2T AGB216	CLOSE	50	0.001
8 LM2T AGB220	EMERGENCY	50	0.001
8 LM2T AGB231	FAST	50	0.001
8 LM2T AGB263	FAULT	50	0.001
8 LM2T AGB215	FORWARD	50	0.001
8 LM2T AGB228	LEFT	50	0.001
8 LM2T AGB218	LOWER	50	0.001
8 LM2T AGB221	OFF	50	0.001
8 LM2T AGB223	ON	50	0.001
8 LM2T AGB211	OPEN	50	0.001
8 LM2T AGB229	POWER ON	50	0.001
8 LM2T AGB227	RAISE	50	0.001
8 LM2T AGB226	RESET	50	0.001
8 LM2T AGB222	REVERSE	50	0.001
8 LM2T AGB217	RIGHT	50	0.001
8 LM2T AGB241	RUNNING	50	0.001
8 LM2T AGB224	SLOW	50	0.001
8 LM2T AGB225	START	50	0.001
8 LM2T AGB230	STOP	50	0.001
8 LM2T AGB214	STOP RESET	50	0.001
8 LM2T AGB240	THERMAL FAULT	50	0.001
8 LM2T AGB237	TRIP	50	0.001
For selector switches.			
8 LM2T AI233	AUTO-MAN	50	0.001
8 LM2T AI234	AUTO-O-MAN	50	0.001
8 LM2T AI241	MAN-AUTO	50	0.001
8 LM2T AI242	MAN-O-AUTO	50	0.001
8 LM2T AGB235	FWD-O-REV	50	0.001
8 LM2T AGB236	OFF-ON	50	0.001
8 LM2T AGB232	STOP-START	50	0.001
International labels for push-buttons.			
8 LM2T AU200	O	50	0.001
8 LM2T AU201	I	50	0.001
8 LM2T AU202	II	50	0.001
International labels for selector switches.			
8 LM2T AU203	O-I	50	0.001
8 LM2T AU204	I-II	50	0.001
8 LM2T AU205	I-O-II	50	0.001

- ^① Recommended use with LM2T AU206 blank label.
^② Sheet with 108 adhesive labels.
^③ Complete code with label text required.

General characteristics

The labels have indelible scratch-proof black lettering on metalised grey polycarbonate background (adhesive).

Special versions

Labels in different languages are available. Contact our Customer Service (Tel. +39 035 4282422).

Plastic disks for mushroom-head push-buttons



Ordering code	Text	Qty per pkg	Wt
		n°	[kg]
8 LM2T AU113	EMERGENCY STOP Ø 90	10	0.005
8 LM2T AU115	EMERGENCY STOP Ø 60	10	0.003

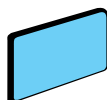
General characteristics

The disks are made of non-adhesive plastic. There is a 2x2mm index.

Special versions

The disk text in different languages is available. Contact our Customer Service (Tel. +39 035 4282422).

Accessories and spare parts



8 LM2T AU108
8 LM2T AU106



8 LM2T AU170



8 LM2T AL...

6

Order code	Description	Qty per pkg	Wt
		n°	[kg]
8 LM2T A150	Rod for mechanical reset button (l=123mm)	10	0.006
8 LM2T A160	BA9s bulb extractor	10	0.004
8 LM2T A161	30mm hole size adapter for 22mm (2 per hole)	10	0.002
8 LM2T AU13..①	IP66 cap for flush push-buttons	10	0.006
8 LM2T AU14..①	IP66 cap for extended and illuminated push-buttons	10	0.009
8 LM2T AU167	Transparent protective cap for L...2T B634... button	10	0.012
8 LM2T A170	Spare key set for selector or mushroom head button	1	0.008
8 LM2T A170G..②	Spare key set for G series selector or mushroom-head button	1	0.008
8 LM2T A190	Diffuser for pilot light	10	0.003
8 LM2T AU108	Blank plastic label for engraving (for LM2T AU105)	50	0.002
8 LM2T AU106	Blank paper label for writing (for LM2T AU105)	50	0.002
8 LM2T AU170	Actuator gasket	10	0.006
8 LM2T ALA024	Filament bulb BA9s 24VAC/DC - 1.2W 10x28mm	50	0.002
8 LM2T ALB024	Filament bulb BA9s 24VAC/DC - 2W 10x28mm	50	0.003
8 LM2T ALB048	Filament bulb BA9s 48VAC/DC - 2W 10x28mm	50	0.003
8 LM2T ALB130	Filament bulb BA9s 130VAC/DC - 2W 10x28mm	50	0.003
8 LM2T ALL006...③	MultiLED bulb BA9s 6VAC/DC 10x28mm	10	0.003
8 LM2T ALL024...③	MultiLED bulb BA9s 24VAC/DC 10x28mm	10	0.003
8 LM2T ALL048...③	MultiLED bulb BA9s 48VAC/DC 10x28mm	10	0.003
8 LM2T ALN130④	Neon bulb ⑤ BA9s 110/125VAC 10x28mm	50	0.003
8 LM2T ALN250④	Neon bulb ⑤ BA9s 220/250VAC 10x28mm	50	0.003
8 LM2T ALN400④	Neon bulb ⑤ BA9s 380/400VAC 10x28mm	50	0.003
8 LM2T ALP130④	Neon bulb ⑤ BA9s 110/125VAC 10x28mm	50	0.003
8 LM2T ALP250④	Neon bulb ⑤ BA9s 220/250VAC 10x28mm	50	0.003
8 LM2T ALP400④	Neon bulb ⑤ BA9s 380/400VAC 10x28mm	50	0.003

① For flush and extended push-buttons, add the digit of the required colour: 2 (black); 3 (green); 4 (red); 5 (yellow); 6 (blue); 7 (transparent); 8 (white).

For illuminated push-buttons, add only digit 7 (transparent).

② Versions with different key code. Complete with the numeric code of the key. The following versions are available: 501, 502, 503, 504, 505, 506, 507, 508, 509, 510.

Example of complete code: 8 LM2T A170G505.

Coloured key versions are available on request; contact our Customer Service (Tel. +39 035 4282422).

③ Add the digit of the selected colour: 3 (green); 4 (red); 5 (yellow). It is advisable to use the same colour of bulb as of the actuator to obtain adequate light emission.

Not suitable for resistance-diode lamp-holders.

④ Neon bulbs emit an amber light and may not be suitable for use with green or blue pilot lights and illuminated actuators.

⑤ Glass with diffuser lens.

⑥ Plastic neon bulb.

Accessories and spare parts



8 LM2T AU100



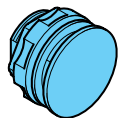
8 LM2T AU105



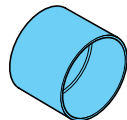
8 LM2T A140



8 LM2T AT...



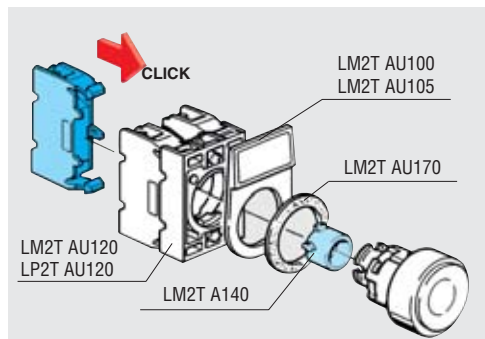
8 LM2T A130



8 LM2T A185

Order code	Description	Qty per pkg n°	Wt [kg]
8 LM2T AU100❶	Legend holder	50	0.001
8 LM2T AU105❶	Legend holder (for paper or plastic labels)	50	0.003
8 LM2T A130	Threaded plug for unused holes	10	0.007
8 LM2T A140	Action plug for centre contact	50	0.001
8 LM2T AT...❷	Printed label to be inserted in pilot lights and push-buttons	50	0.001
8 LM2T AU107	Transparent protection for LM2T AU106 label	50	0.001
8 LM2T A185	Selector protection shroud (for knob types only)	10	0.004

- ❶ To preserve actuators degree of protection (IP65), place their gasket between legend holder and metal plate.
 ❷ Available only on specific request contact our Customer Service (Tel. +39 035 4282422).



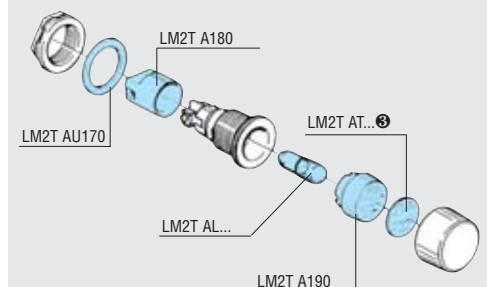
Accessories and spare parts for LP2T (plastic) series only



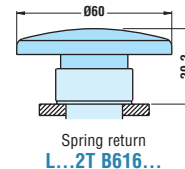
8 LM2T A180

Order code	Description	Qty per pkg n°	Wt [kg]
8 LP2T AU120	Mounting adapter	10	0.012
8 LM2T AU157	IP66 cap for double push-buttons (transparent)	10	0.007
8 LM2T A180	IP20 terminal protection for monoblock pilot light LP2T IL21...	10	0.002
8 LM2T A200	Socket spanner/wrench for monoblock pilot lights	1	0.003
8 LM2T A12...❸	Coloured diffuser for double push-buttons	10	0.001

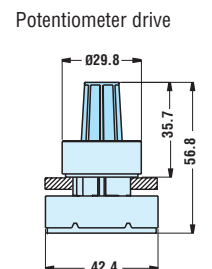
- ❸ Add the digit of the selected colour: 3 (green); 4 (red); 5 (yellow); 6 (blue); 7 (transparent); 8 (white)



Mushroom-head buttons

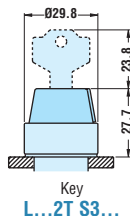


Mushroom-head buttons

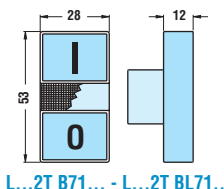


LM2T P100 - LM2T P110

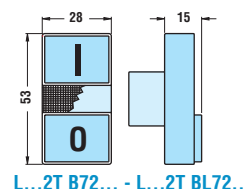
Selectors



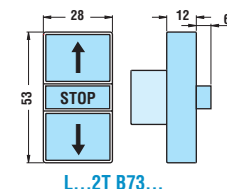
Double-touch push buttons
with or without indicator
2 flush buttons



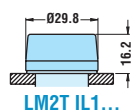
Double-touch push buttons
with or without indicator
1 flush and 1 extended buttons



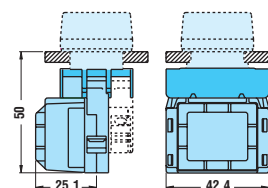
Triple-touch button with
middle extended button



Pilot light

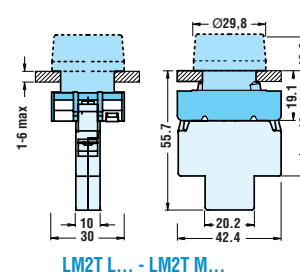


Transformer or flashing
lamp holder

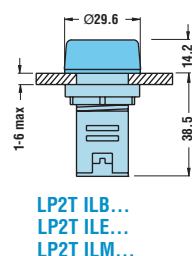


LM2T YL... - LM2T GL...
LM2T XL... - LM2T FL...

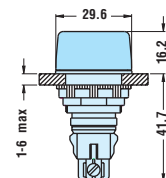
LED integrated lamp-holder
steady or flashing light



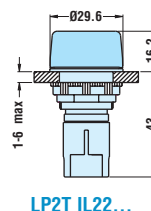
LED-integrated
monoblock pilot light
steady light



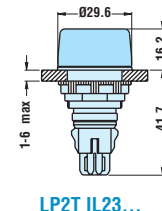
Monoblock pilot light
complete with diffuser,
without terminal
protection



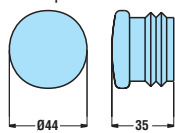
Monoblock pilot light
complete with diffuser
and terminal
protection



Monoblock pilot light
complete with diffuser,
1-6.35 or 2-2.8
Faston terminals without
terminal protection

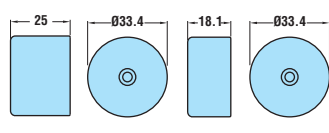


Transparent boot



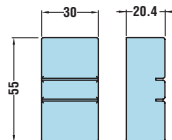
LM2T AU167

Button protection boot



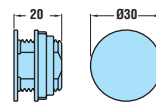
LM2T AU14... LM2T AU13...

Double/triple button boot



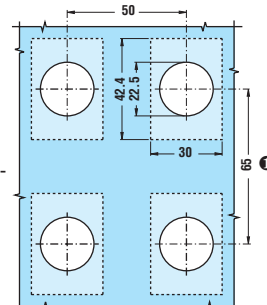
LM2T A185

Threaded plug for unused holes



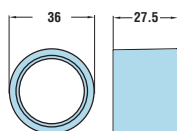
LM2T A130

Drillings - Minimum recommended distances



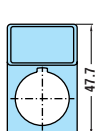
① When Faston auxiliary contacts are used, the vertical pitch must be 90mm minimum.

Knob selector protection



8 LM2T AU157

Label holder



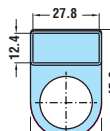
(2x2mm index)
LM2T AU105

Label



LM2T AU10...

Label holder



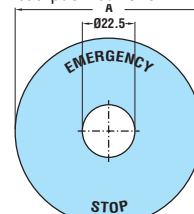
(2x1mm tab)
LM2T AU100

Label



LM2T A...

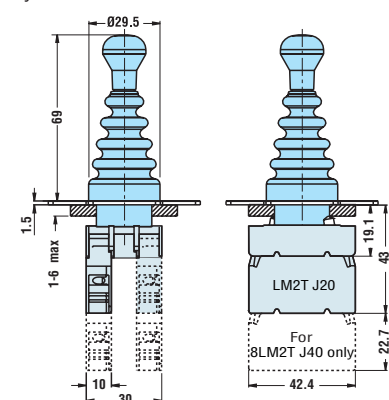
Plastic disk for mushroom-head push-buttons



(2x2mm index)
A = 60mm
A = 90mm

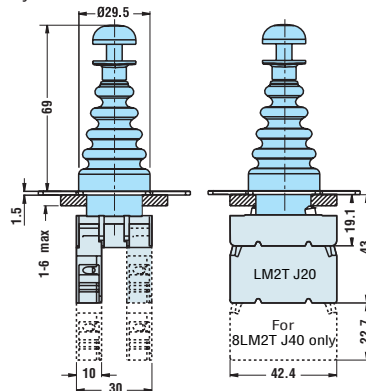
LM2T AU11...

Joystick with free actuation lever



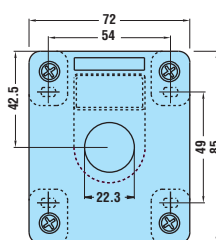
LM2T J20... - LM2T J40...

Joystick with mechanical latch lever



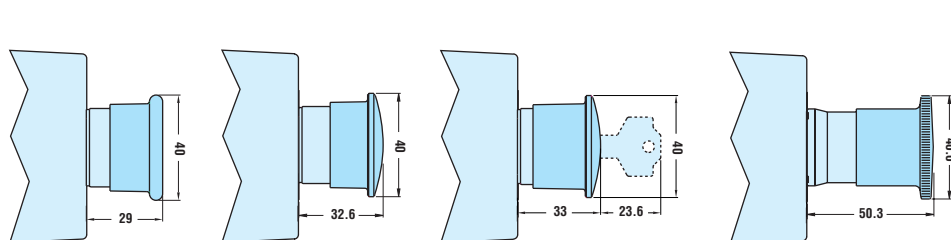
LM2T J21... - LM2T J41...

Control station with one actuator

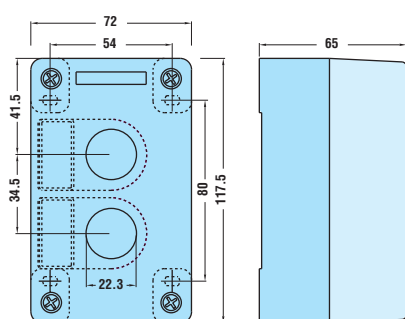


(2x2mm index)
L2PP 1A5 - L2PP 1A8

Complete push button station with one actuator

L2PP 100
L2PP 150L2PP 110
L2PP 115
L2PP 160
L2PP 165L2PP 120
L2PP 170L2PP 130
L2PP 180

Control station for two actuators



L2PP 2A8 (2x2mm index)

For 3, 4 or 5 actuator versions, increase the total length by the pitch between the drillings, 35mm for each extra actuator.